

ABSTRACT

Provided are decoding methods and decoders for calculating comb filter error and performing comb filter calculation used for decoding video signals. In one aspect, a method of calculating comb filter error used for decoding a video signal comprises storing a plurality of
5 consecutive video lines of the video signal, the plurality of consecutive video lines including a first video line, a second video line appearing immediately before the first video line, and a third video line appearing immediately before the second video line; receiving a current video line of the video signal, wherein the current video line appears immediately after the first video line; obtaining a first difference between the current video line and the second video line; obtaining a
10 second difference between the first video line and the third video line; and filtering the video signal for separating components in the video signal, based on the differences.